

Appl. No. 10/709,818
Amdt. dated December 09, 2005
Reply to Office action of September 09, 2005

AMENDMENTS TO THE CLAIMS

1. (currently amended) An antenna carrier comprising:
a mast;
5 a mast clamp installed at one end of the mast rotatable with respect to the mast, said
mast clamp comprising an extension arm; and
a fixture comprising a holder, a bolt, and a fine tune module with one end fixed to
the extension arm, one end of the holder moveably connected to the fine tune
module, the bolt moveably disposed in the holder for fixing the holder on one
10 side of the mast[.];
wherein the fine tune module comprises a studded bushing having a threaded stud
rotatably disposed on the extension arm of the mast clamp, and a threaded rod having
one end threaded into a threaded bushing; the studded bushing for moving along the
threaded rod for tuning the rotation angle of the antenna on the antenna carrier.
15
2. (cancelled)
3. (currently amended) The carrier of claim [[2]] 1 wherein the fixture has a fine
tuning graduation and the extension arm of the mast clamp has a first pointer for
20 pointing to a value of the rotation angle of the antenna on the fine tuning graduation.
4. The carrier of claim 1 wherein one end of the fine tune module is movably disposed
on the extension arm of the mast clamp.
- 25 5. The carrier of claim 1 wherein the mast comprises a support seat and a bushing for
connecting the support seat and the mast clamp.
6. The carrier of claim 5 wherein the bolt is used for fixing the fixture on one side of

Appl. No. 10/709,818
Amdt. dated December 09, 2005
Reply to Office action of September 09, 2005

the support seat.

- 5 7. The carrier of claim 1 further comprising a bracket having a first end disposed on the first end of the mast clamp and a second end rotatably disposed on the mast clamp for adjusting an elevation angle of the antenna.
8. The carrier of claim 7 further comprising a rotational fixture rotatably disposed on the bracket for adjusting the rotation angle of the antenna.
- 10 9. The carrier of claim 8 further comprising a support arm having one end disposed on the rotational fixture and another end supporting a low noise signal amplifier for receiving radio signals from the antenna.
- 15 10. The carrier of claim 8 wherein the antenna is disposed on the rotational fixture.
11. The carrier of claim 1 wherein the extension arm is installed on the underside of the mast clamp.
- 20 12. The carrier of claim 1 wherein the bolt is a U-bolt.
- 25 13. (currently amended) A radio wave receiving device comprising:
an antenna device;
a carrier disposed with the antenna device;
a seat;
a connecting module connected to the carrier; and
a rotation angle fine tune module connected to the seat and the connecting module
for adjusting a rotation angle of the carrier and the antenna[[]], the rotation
angle fine tune module comprising a fixing unit and a fine tuning unit; the

Appl. No. 10/709,818
Amdt. dated December 09, 2005
Reply to Office action of September 09, 2005

fixing unit being directly or indirectly disposed on the seat for fixing the fine tuning unit;

- 5 wherein the fine tuning unit comprises a studded bushing, a threaded bushing, a threaded rod, and a choke unit; the studded bushing is set on the connecting module;
the threaded bushing is set on the fixing unit; the studded bushing comprises a first hole having an internal diameter larger than the diameter of the threaded rod and a threaded stud perpendicular to said first hole; the threaded bushing comprises a second hole matched to the thread of the threaded rod; the first end of the threaded rod is through the first hole, the choke unit is set on the threaded rod for limiting the range
10 that the studded bushing can be moved along the length of the threaded rod; the second end of the threaded rod is through the second hole for moving the threaded bushing along the length of the threaded rod when the threaded rod is turned.

14-15. (cancelled)

15

16. (currently amended) The radio wave receiving device of claim ~~[[15]]~~ 13 wherein the connecting module further comprises a locking module for fixing the connecting module on the seat to prevent changes in the rotation angle of the antenna.